

COP 3223 Fall 2013 Grading Criteria Program 5
Total: 100 points

Problem A(35 pts)

Execution Points (20 pts)

- 1) Prompts user for appropriate input values (2 pts)
- 2) Properly reads in the input values (4 pts)
- 3) Properly formats the output (2 pts)
- 3) Properly executes on each of the test cases below (4 pts for each case)
 - a) length = 48, width = 24, height = 18 (74.88)
 - b) length = 15, width = 10, height = 12 (15.00)
 - c) length = 100, width = 20, height = 50 (280.00)

Note: if a program doesn't compile, but all the logic is correct, you may award upto 6 of the 12 execution points. This will be left up to your mercy and discretion.

Also, if none of the test cases work because of a simple logical error, feel free to deduct 1 to 4 points for that logical error (based on your assessment of its severity) instead of the full 12 points for all the test cases.

Points for Code (11 pts)

- 1) Properly included #defines (2 pt)
- 2) Calculated the area of FIVE sides of the tank (5 pts)
- 3) Multiplied by the per square inch (2 pt)
- 3) printf's and scanf's were located in the proper places (2 pt)

Points for Comments & Style (4 pts)

- 1) Header comment with name, course number, section number, assignment title, and date. (1 pts)
- 2) Indentation and use of white space (1 pt)
- 3) Appropriate variable names (1 pt)
- 4) Internal comments (1 pt)

Problem B (30 pts)

Execution Points (15 pts)

- 1) Prompts user for appropriate values and reads them in correctly (3 pts)
- 2) Test cases: 4 pts for each of these cases:
 - a) length = 48, width = 24, height = 18 (103.68)
 - b) length = 15, width = 10, height = 12 (9.00)
 - c) length = 100, width = 20, height = 50 (500.00)

Note: if a program doesn't compile, but all the logic is correct, you may award upto 6 of the 12 execution points. This will be left up to your mercy and discretion.

Also, if none of the test cases work because of a simple logical error, feel free to deduct 1 to 4 points for that logical error (based on your assessment of its severity) instead of the full 12 points for all the test cases.

Points for Code (11 pts)

- 1) Properly included #defines (2 pt)
- 2) Used logically sound formula to find the volume (5 pt)
- 3) Multiplied by cost per cubic inch of the tank (2 pt)
- 4) printf's and scanf's were located in the proper places (2 pt)

Points for Comments & Style (4 pts)

- 1) Header comment with name, course number, section number, assignment title, and date. (1 pts)
- 2) Indentation and use of white space (1 pt)
- 3) Appropriate variable names (1 pt)
- 4) Internal comments (1 pt)

Problem C(35 pts)

Execution Points (20 pts)

- 1) Prompts user for appropriate input values (2 pts)
- 2) Properly reads in the input values (4 pts)
- 3) Properly formats the output (2 pts)
- 3) Properly executes on each of the test cases below (4 pts for each case)
 - a) length = 48, width = 24, height = 18 (231.44)
 - b) length = 5, width = 10, height = 1000 (149.00)
 - c) length = 2, width = 2, height = 500 (50.08)

Note: if a program doesn't compile, but all the logic is correct, you may award upto 4 of the 12 execution points. This will be left up to your mercy and discretion.

Also, if none of the test cases work because of a simple logical error, feel free to deduct 1 to 4 points for that logical error (based on your assessment of its severity) instead of the full 12 points for all the test cases.

Points for Code (11 pts)

- 1) Properly included #defines (2 pt)
- 2) Used a mathematically sound formula for the number of fish in the tank (5 pts) (Give them points here even if they use integer division.)
- 3) Multiplied number of fish by \$5.00 (2 pt)
- 3) printf's and scanf's were located in the proper places (2 pt)

Points for Comments & Style (4 pts)

- 1) Header comment with name, course number, section number, assignment title, and date. (1 pts)
- 2) Indentation and use of white space
- 3) Appropriate variable names (1 pt)

4) Comments in code (1 pt)

General note: Please record the score as an integer. To ensure this, never take off fractional points, either take a point off or don't. A good way to balance this out if you feel like taking off fractional points is if you see a two mistakes worth .5 points each, just take off 1 point for 1 of them.

When you give the students comments, just tell them how much you took off and for what. Also, include your initials at the end of your comment so students know who graded their assignment.